SPECIFICATIONS

Model	L15V26B
	Horizontal size (inch) : 15.2 Height (inch) : 14.4 Thickness (inch) : 7 Weight (pound) : 11.8
Power requirements	DC 12V/3.5A

* CAUTION : For use only with Model No. SAD6012SE AC Adapter, manufactured by SERONICS CO., LTD.

Television system	NTSC
Television channels	VHF : 2 ~ 13, UHF : 14 ~ 69 Cable : 01 ~ 125
Tube	LCD Panel
Power consumption	45 W
External antenna impedance	75 Ω
Audio output	1 W + 1 W
Speaker outputs	8 Ω X 2
External input ports	1 Video input port set 1 Component (480i/480p/720p/1080i) input set 1 Component audio input set 1 S-Video input 1 Headphone jack 1 PC sound jack 1 PC input jack 1 DC 12V input port set 1 Antenna input
Adapter (DC power)	In : AC 100-240V ~ 1.5A-0.6A 50/60Hz, 115~180VA Out : DC 12V, 5A

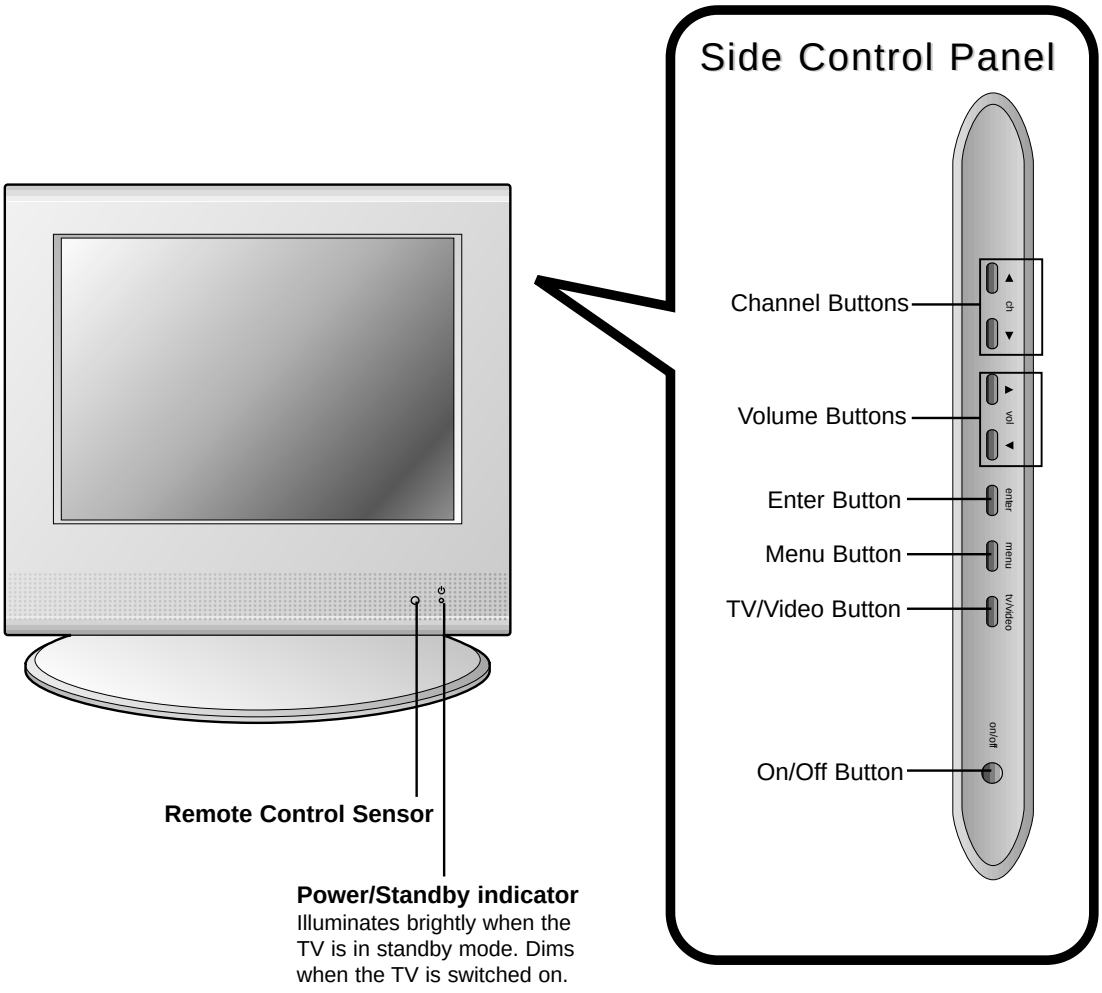
* CAUTION : For use only with Model No. SAD6012SE AC Adapter, manufactured by SERONICS CO., LTD.

Power supply cordset	Standard North America three wire earth-grounding with flexible cord SJT type or higher type.

* CAUTION : If replacement becomes necessary, replace it with an exact duplicate. Contact any Zenith authorized service center.

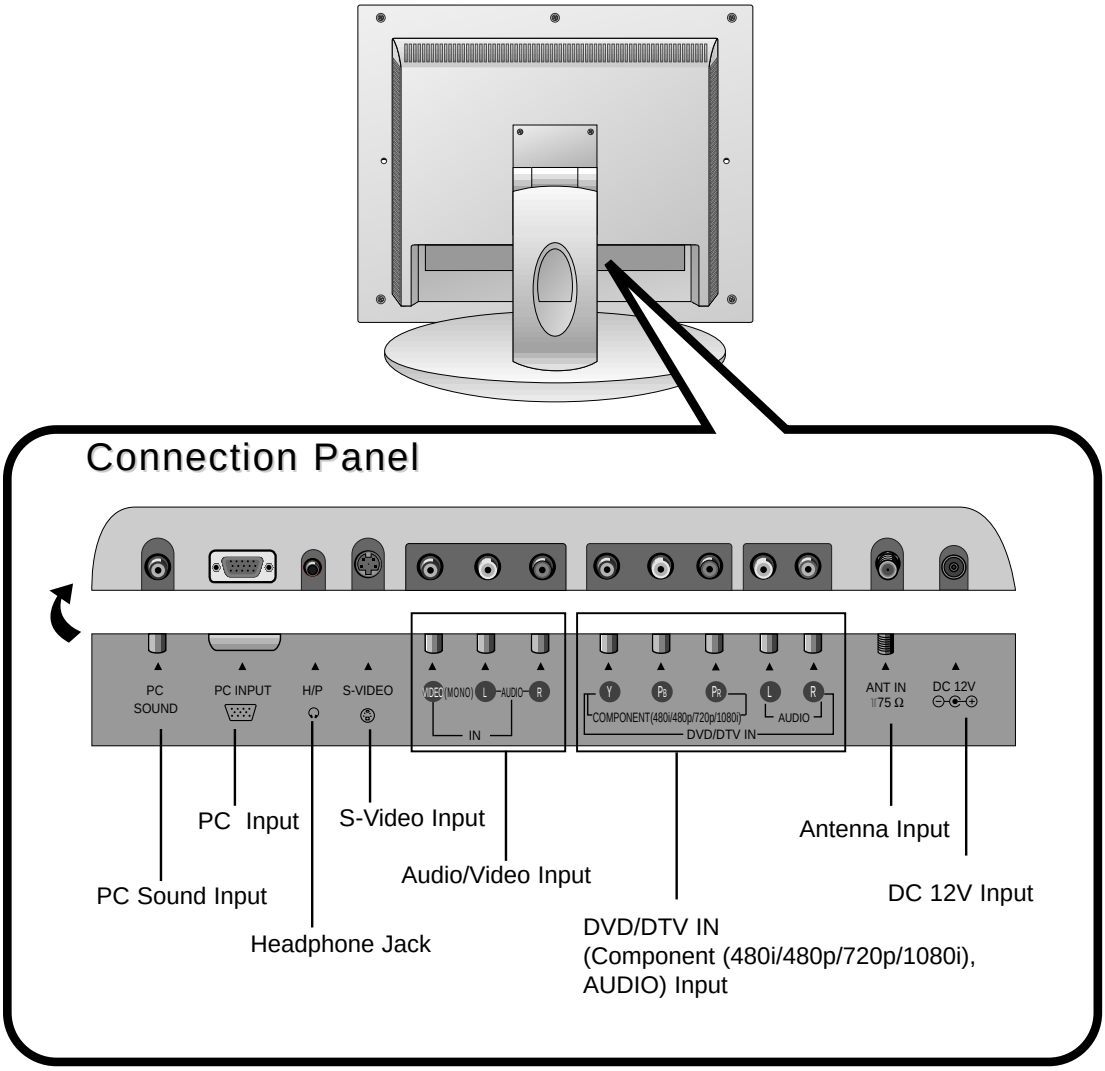
DESCRIPTION OF CONTROLS

Front of the TV



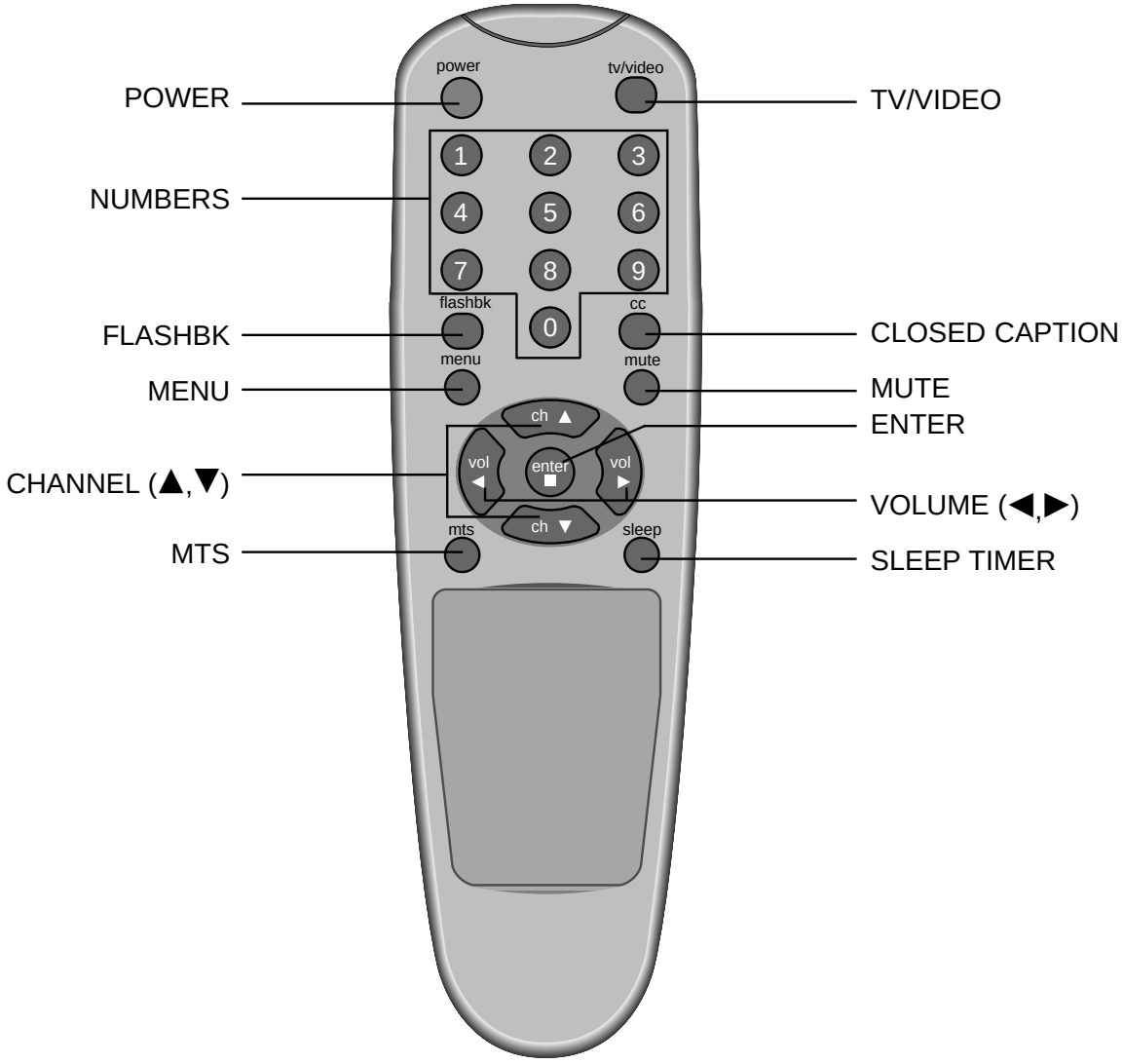
DESCRIPTION OF CONTROLS

Back of the TV



DESCRIPTION OF CONTROLS

Remote Control Overview



SPECIFICATIONS

Displayable Video Formats

MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
VGA	640x400	31.5KHz	70Hz
	640x400	37.9KHz	85Hz
	640x480	31.5KHz	60Hz
	640x480	35.0KHz	67Hz
	640x480	37.9KHz	72Hz
	640x480	37.5KHz	75Hz
	640x480	43.3KHz	85Hz
	720x400	31.5KHz	70Hz
SVGA	800x600	35.2KHz	56Hz
	800x600	37.9KHz	60Hz
	800x600	48.1KHz	72Hz
	800x600	46.9KHz	75Hz
	800x600	53.7KHz	85Hz
(MAC)	832x624	49.7KHz	75Hz
XGA	1024x768	48.4KHz	60Hz
	1024x768	56.5KHz	70Hz
	1024x768	60.2KHz	75Hz
	1024x768	68.67KHz	85Hz

ADJUSTMENT INSTRUCTION

1. Notes

(1) This set uses an AC adapter, so connect the adapter to the TV correctly before adjustment.
(2) These adjustments must be performed in the correct sequence.
(3) These adjustments must be performed at 25±5°C of temperature and 65±10% of relative humidity.
(4) The input voltage of the receiver must be kept at 100~220V, 50/60Hz during adjustment.
(5) The set must be operated for 30 minutes before adjustment. Heat Run must be performed with the full white signal or a TV noise signal.

2. PC Input Mode Adjustment

2-1. Required Test Equipment

(1) A pattern generator with a Gray Pattern of 16(11) tones.
(2) A Service remote control

2-2. Preparation for Adjustment

(1) Perform Heat Run for more than 30 minutes with a white pattern.
(2) Connect the signal from a pattern generator to the LCD TV's PC Input Jack(D-Sub).

2-3. Auto Gray Adjustment

(1) Apply the gray signal of XGA(1024X768) 16 tones(H: 31-214 Pattern, V: 60-84 Pattern) apply the gray signal of Pattern Generator 16(11) tones.
(2) In SVC Menu mode, adjust the Auto gray from 0 to 1 by using the Volume + Key.

2-4. Position of Mode Adjustment

Timing of Mode Table * H[dot]/V[line]

Mode	VGA-60	VGA-67	VGA-72	VGA-75	VGA-85	SVGA-56	SVGA-60	SVGA-72
H_Total	800	864	832	840	832	1024	1056	1040
H_Display	640	640	656	640	640	800	800	800
H_Blanking	160	224	176	200	192	224	256	240
H_Sync	96	64	40	64	56	72	128	120
H Polarity	NEG.	NEG.	NEG.	NEG.	NEG.	POS	POS	POS
H_Bp	48	96	120	120	80	128	88	64
H_Fp	16	64	16	16	56	24	40	56
H-Freq[KHz]	31.469	35.0	37.861	37.5	43.269	35.156	37.879	48.077
/Clk[MHz]	25.175	30.24	31.5	31.5	36.0	36.0	40.0	50.0
V_Total	525	525	520	500	509	625	628	666
V_Display	480	480	496	480	480	600	600	600
V_Blanking	45	45	24	20	29	25	28	66
V_Sync	2	3	3	3	3	2	4	6
V Polarity	NEG	NEG	NEG	NEG	NEG	POS	POS	POS
V_Bp	33	39	20	16	25	22	23	23
V_Fp	10	3	1	1	1	1	1	37

ADJUSTMENT INSTRUCTION

Mode	SVGA-75	SVGA-85	XGA-60	XGA-70	XGA-75	MAC-75	XGA-85
H_Total	1056	1048	1344	1328	1312	1152	1376
H_Display	800	800	1024	1024	1024	832	1024
H_Blanking	256	248	320	304	288	320	352
H_Sync	80	64	136	136	96	64	96
H Polarity	POS	POS	NEG		POS	NEG	POS
H_Bp	160	152	136	144	176	224	208
H_Fp	16	32	160	24	16	32	48
H-Freq[KHz]	46.875	53.674	48.363	56.476	60.023	49.725	68.677
/Clk[MHz]	49.5	56.25	65.0	75.0	78.75	57.283	84.997
V_Total	625	631	806	806	800	667	808
V_Display	600	600	768	768	768	624	768
V_Blanking	25	31	38	38	32	43	40
V_Sync	3	3	6	6	3	3	3
V Polarity	POS	POS	NEG	NEG	POS	NEG	POS
V_Bp	21	27	29	29	28	39	36
V_Fp	1	1	3	3	1	1	1

Mode	VGA350-70	VGA350-85	VGA400-70	VGA400-85
H_Total	800	832	800	832
H_Display	640	640	640	640
H_Blanking	160	192	160	192
H_Sync	96	64	96	64
H Polarity	POS	POG	NEG	NEG
H_Bp	48	96	48	96
H_Fp	16	32	16	32
H-Freq[KHz]	31.468	37.86	31.46	37.86
/Clk[MHz]	25.17	31.47	25.17	31.5
V_Total	449	445	449	445
V_Display	350	350	400	400
V_Blanking	99	95	49	45
V_Sync	2	3	2	3
V Polarity	NEG	NEG	POS	POS
V_Bp	60	60	35	41
V_Fp	37	32	12	1

4. EDID(The Extended Display Identification Data)

EDID Table

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	30	E5	D7	3A	01	00	00	00
10	00	0B	01	01	78	1F	17	70	E8	C3	A0	A3	54	4C	97	24
20	14	50	54	BF	E8	80	31	59	3B	D9	45	59	61	59	71	59
30	81	40	81	80	01	01	10	0E	01	01	01	01	01	01	01	01
40	01	01	01	01	01	01	01	01	F9	15	01	01	01	01	01	01
50	01	01	01	01	01	01	01	01	01	01	64	19	00	40	41	00
60	26	30	18	88	36	00	0E	C3	10	00	00	1E	00	00	00	FD
70	00	32	55	1E	46	0D	00	0A	20	20	20	20	20	20	00	C8

5. Option 1 Data(200PR~A2 ST: 1bit, SYS: 2bit)

OPTION Data	200PR	TEXT	I/II SV	TOP	SCART	A2 ST	SYS
0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	1
2	0	0	0	0	0	0	2
3	0	0	0	0	0	0	3
4	0	0	0	0	0	1	0
5	0	0	0	0	0	1	1
6	0	0	0	0	0	1	2
7	0	0	0	0	0	1	3
8	0	0	0	0	1	0	0
9	0	0	0	0	1	0	1
10	0	0	0	0	1	0	2
11	0	0	0	0	1	0	3
12	0	0	0	0	1	1	0
13	0	0	0	0	1	1	1
14	0	0	0	0	1	1	2
15	0	0	0	0	1	1	3
16	0	0	0	1	0	0	0
17	0	0	0	1	0	0	1
18	0	0	0	1	0	0	2
19	0	0	0	1	0	0	3
20	0	0	0	1	0	1	0
21	0	0	0	1	0	1	1
22	0	0	0	1	0	1	2
23	0	0	0	1	0	1	3
24	0	0	0	1	1	0	0

OPTION Data	200PR	TEXT	I/II SV	TOP	SCART	A2 ST	SYS
25	0	0	0	1	1	0	1
26	0	0	0	1	1	0	2
27	0	0	0	1	1	0	3
28	0	0	0	1	1	1	0
29	0	0	0	1	1	1	1
30	0	0	0	1	1	1	2
31	0	0	0	1	1	1	3
32	0	0	1	0	0	0	0
33	0	0	1	0	0	0	1
34	0	0	1	0	0	0	2
35	0	0	1	0	0	0	3
36	0	0	1	0	0	1	0
37	0	0	1	0	0	1	1
38	0	0	1	0	0	1	2
39	0	0	1	0	0	1	3
40	0	0	1	0	1	0	0
41	0	0	1	0	1	0	1
42	0	0	1	0	1	0	2
43	0	0	1	0	1	0	3
44	0	0	1	0	1	1	0
45	0	0	1	0	1	1	1
46	0	0	1	0	1	1	2
47	0	0	1	0	1	1	3
48	0	0	1	1	0	0	0
49	0	0	1	1	0	0	1

OPTION Data	200PR	TEXT	I/II SV	TOP	SCART	A2 ST	SYS
50	0	0	1	1	0	0	2
51	0	0	1	1	0	0	3
52	0	0	1	1	0	1	0
53	0	0	1	1	0	1	1
54	0	0	1	1	0	1	2
55	0	0	1	1	0	1	3
56	0	0	1	1	1	0	0
57	0	0	1	1	1	0	1
58	0	0	1	1	1	0	2
59	0	0	1	1	1	0	3
60	0	0	1	1	1	1	0
61	0	0	1	1	1	1	1
62	0	0	1	1	1	1	2
63	0	0	1	1	1	1	3
64	0	1	0	0	0	0	0
65	0	1	0	0	0	0	1
66	0	1	0	0	0	0	2
67	0	1	0	0	0	0	3
68	0	1	0	0	0	1	0
69	0	1	0	0	0	1	1
70	0	1	0	0	0	1	2
71	0	1	0	0	0	1	3
72	0	1	0	0	1	0	0
73	0	1	0	0	1	0	1
74	0	1	0	0	1	0	2
75	0	1	0	0	1	0	3
76	0	1	0	0	1	1	0
77	0	1	0	0	1	1	1
78	0	1	0	0	1	1	2
79	0	1	0	0	1	1	3
80	0	1	0	1	0	0	0
81	0	1	0	1	0	0	1
82	0	1	0	1	0	0	2
83	0	1	0	1	0	0	3
84	0	1	0	1	0	1	0
85	0	1	0	1	0	1	1
86	0	1	0	1	0	1	2
87	0	1	0	1	0	1	3
88	0	1	0	1	1	0	0
89	0	1	0	1	1	0	1
90	0	1	0	1	1	0	2
91	0	1	0	1	1	0	3

OPTION Data	200PR	TEXT	I/II SV	TOP	SCART	A2 ST	SYS
92	0	1	0	1	1	1	0
93	0	1	0	1	1	1	1
94	0	1	0	1	1	1	2
95	0	1	0	1	1	1	3
96	0	1	1	0	0	0	0
97	0	1	1	0	0	0	1
98	0	1	1	0	0	0	2
99	0	1	1	0	0	0	3
100	0	1	1	0	0	1	0
101	0	1	1	0	0	1	1
102	0	1	1	0	0	1	2
103	0	1	1	0	0	1	3
104	0	1	1	0	1	0	0
105	0	1	1	0	1	0	1
106	0	1	1	0	1	0	2
107	0	1	1	0	1	0	3
108	0	1	1	0	1	1	0
109	0	1	1	0	1	1	1
110	0	1	1	0	1	1	2
111	0	1	1	0	1	1	3
112	0	1	1	1	0	0	0
113	0	1	1	1	0	0	1
114	0	1	1	1	0	0	2
115	0	1	1	1	0	0	3
116	0	1	1	1	0	1	0
117	0	1	1	1	0	1	1
118	0	1	1	1	0	1	2
119	0	1	1	1	0	1	3
120	0	1	1	1	1	0	0
121	0	1	1	1	1	0	1
122	0	1	1	1	1	0	2
123	0	1	1	1	1	0	3
124	0	1	1	1	1	1	0
125	0	1	1	1	1	1	1
126	0	1	1	1	1	1	2
127	0	1	1	1	1	1	3
128	1	0	0	0	0	0	0
129	1	0	0	0	0	0	1
130	1	0	0	0	0	0	2
131	1	0	0	0	0	0	3
132	1	0	0	0	0	1	0
133	1	0	0	0	0	1	1

OPTION Data	200PR	TEXT	I/II SV	TOP	SCART	A2 ST	SYS
134	1	0	0	0	0	1	2
135	1	0	0	0	0	1	3
136	1	0	0	0	1	0	0
137	1	0	0	0	1	0	1
138	1	0	0	0	1	0	2
139	1	0	0	0	1	0	3
140	1	0	0	0	1	1	0
141	1	0	0	0	1	1	1
142	1	0	0	0	1	1	2
143	1	0	0	0	1	1	3
144	1	0	0	1	0	0	0
145	1	0	0	1	0	0	1
146	1	0	0	1	0	0	2
147	1	0	0	1	0	0	3
148	1	0	0	1	0	1	0
149	1	0	0	1	0	1	1
150	1	0	0	1	0	1	2
151	1	0	0	1	0	1	3
152	1	0	0	1	1	0	0
153	1	0	0	1	1	0	1
154	1	0	0	1	1	0	2
155	1	0	0	1	1	0	3
156	1	0	0	1	1	1	0
157	1	0	0	1	1	1	1
158	1	0	0	1	1	1	2
159	1	0	0	1	1	1	3
160	1	0	1	0	0	0	0
161	1	0	1	0	0	0	1
162	1	0	1	0	0	0	2
163	1	0	1	0	0	0	3
164	1	0	1	0	0	1	0
165	1	0	1	0	0	1	1
166	1	0	1	0	0	1	2
167	1	0	1	0	0	1	3
168	1	0	1	0	1	0	0
169	1	0	1	0	1	0	1
170	1	0	1	0	1	0	2
171	1	0	1	0	1	0	3
172	1	0	1	0	1	1	0
173	1	0	1	0	1	1	1
174	1	0	1	0	1	1	2
175	1	0	1	0	1	1	3

OPTION Data	200PR	TEXT	I/II SV	TOP	SCART	A2 ST	SYS
176	1	0	1	1	0	0	0
177	1	0	1	1	0	0	1
178	1	0	1	1	0	0	2
179	1	0	1	1	0	0	3
180	1	0	1	1	0	1	0
181	1	0	1	1	0	1	1
182	1	0	1	1	0	1	2
183	1	0	1	1	0	1	3
184	1	0	1	1	1	0	0
185	1	0	1	1	1	0	1
186	1	0	1	1	1	0	2
187	1	0	1	1	1	0	3
188	1	0	1	1	1	1	0
189	1	0	1	1	1	1	1
190	1	0	1	1	1	1	2
191	1	0	1	1	1	1	3
192	1	1	0	0	0	0	0
193	1	1	0	0	0	0	1
194	1	1	0	0	0	0	2
195	1	1	0	0	0	0	3
196	1	1	0	0	0	1	0
197	1	1	0	0	0	1	1
198	1	1	0	0	0	1	2
199	1	1	0	0	0	1	3
200	1	1	0	0	1	0	0
201	1	1	0	0	1	0	1
202	01	1	0	0	1	0	2
203	1	1	0	0	1	0	3
204	1	1	0	0	1	1	0
205	1	1	0	0	1	1	1
206	1	1	0	0	1	1	2
207	1	1	0	0	1	1	3
208	1	1	0	1	0	0	0
209	1	1	0	1	0	0	1
210	1	1	0	1	0	0	2
211	1	1	0	1	0	0	3
212	1	1	0	1	0	1	0
213	1	1	0	1	0	1	1
214	1	1	0	1	0	1	2
215	1	1	0	1	0	1	3
216	1	1	0	1	1	0	0
217	1	1	0	1	1	0	1

OPTION Data	200PR	TEXT	I/II SV	TOP	SCART	A2 ST	SYS
218	1	1	0	1	1	0	2
219	1	1	0	1	1	0	3
220	1	1	0	1	1	1	0
221	1	1	0	1	1	1	1
222	1	1	0	1	1	1	2
223	1	1	0	1	1	1	3
224	1	1	1	0	0	0	0
225	1	1	1	0	0	0	1
226	1	1	1	0	0	0	2
227	1	1	1	0	0	0	3
228	1	1	1	0	0	1	0
229	1	1	1	0	0	1	1
230	1	1	1	0	0	1	2
231	1	1	1	0	0	1	3
232	1	1	1	0	1	0	0
233	1	1	1	0	1	0	1
234	1	1	1	0	1	0	2
235	1	1	1	0	1	0	3
236	1	1	1	0	1	1	0
237	1	1	1	0	1	1	1
238	1	1	1	0	1	1	2
239	1	1	1	0	1	1	3
240	1	1	1	1	0	0	0
241	1	1	1	1	0	0	1
242	1	1	1	1	0	0	2
243	1	1	1	1	0	0	3
244	1	1	1	1	0	1	0
245	1	1	1	1	0	1	1
246	1	1	1	1	0	1	2
247	1	1	1	1	0	1	3
248	1	1	1	1	1	0	0
249	1	1	1	1	1	0	1
250	1	1	1	1	1	0	2
251	1	1	1	1	1	0	3
252	1	1	1	1	1	1	0
253	1	1	1	1	1	1	1
254	1	1	1	1	1	1	2
255	1	1	1	1	1	1	3

6. Option2 data(ACMS~BBACK:1bit,LANG:3bit)

OPTION Data	ACMS	VOL	HIDEV
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0
5	1	0	1
6	1	1	0
7	1	1	1

7. Option3 data(IIC AFT~CH+AU:1bit)

OPTION Data	IIC AFT	MD SAVE	MONO	CH+AUS
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

TROUBLESHOOTING

1. General Features

No.	Symptom	Cause	Check Point
1	Button doesn't function	1) Broken components and soldering 2) P2 connector error	1) Check button visually. Check and repair soldering 2) Check and repair the P2 connector
2	No Picture	Input error of inverter connector	1) Bend the pin legs of P1 connector -> recheck them 2) Check and repair the IC804,805 SI4925
		P902 and Pin 21 connector have slipped out	1) Check and fix P902 connector 2) Check and fix the components on the P902 LCD module and main board 3) Check Pin21
		Cracked components and soldering on the tuner board	1) Check and repair the tuner and main board 2) Solder Q102
3	Dark screen	1) Defective LCD lamp 2) Defective inverter 3) Input error of inverter connector	1) Replace the inverter 2) Replace the LCD lamp 3) Check the connector input

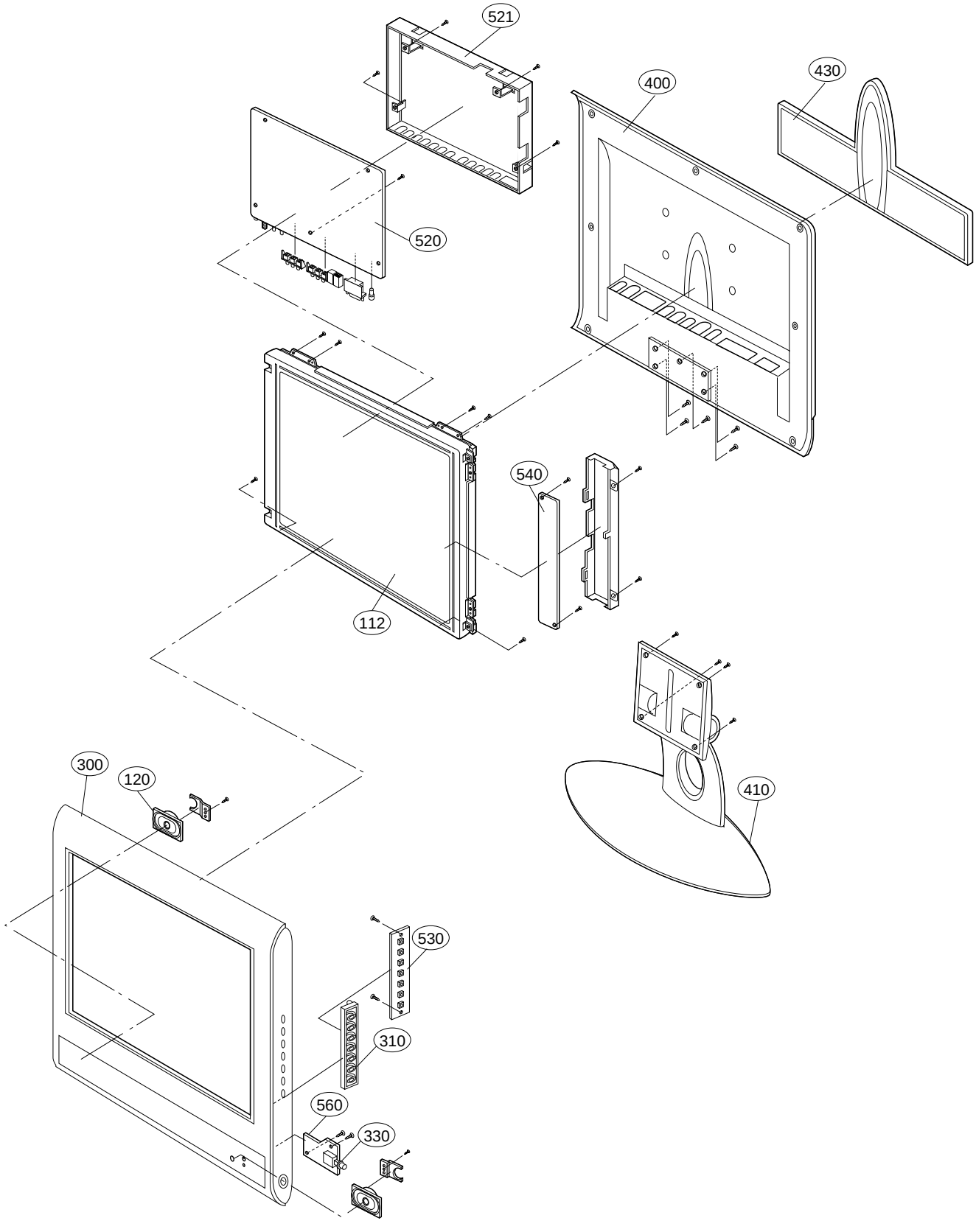
2. PC Mode

No.	Symptom	Cause	Check Point
4	Screen noise	Clock or phase not able to be adjusted	1) Resetting is needed according to the video card of each PC 2) Horizontal noise : adjust phase until no horizontal noise occurs 3) Vertical noise : adjust clock in menu until no vertical noise occurs.
5	Screen position error	Screen position error horizontally or vertically	1) Run the Auto Configure in Menu. 2) Adjust horizontal and vertical position until the screen displays normally.
6	Color beat noise	Solder of D-SUB Jack of JA202 and IC202.	Recheck and repair JA202, IC202.

3. TV and external input

No.	Symptom	Cause	Check Point
7	No sound - Speaker - Earphone	Defective Reset IC of IC603 Defective MSP3440G of IC601 Defective B+(8V,5V) of IC604,605.	1) Check the volume and speaker - Sound comes out only when being inputted into Audio L/R 2) Check after replacing IC603 3) Replace IC601 4) Check and replace B+ of IC604,605.
8	Video color beat noise	Earphone shield case being touched	Check the shield and JA203, Replace shield case
		Solder of IC301 and IC912	Re-solder.

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
112	6304FLP006B	LCD,LC151X01-C3P1
120	6400VA0017A	SPEAKER,GENERAL T401SX-095K14 LG C&D 8 OHM 1.0
300	3091V00443B	CABINET ASSEMBLY
310	5020V00552J	BUTTON,CONTROL RU-15LA51 ABS, HF-380
330	5020V00553G	BUTTON,POWER RU-15LA51 ABS, HF-380 7K
400	3809V00300D	BACK COVER ASSEMBLY,RU-15LA52 2PHONE ML-012A
410	4811V00029B	BRACKET ASSEMBLY,STAND RU-15LA50 ML024A ZENITH
430	4814V00326A	SHIELD,COVER 15LA50 ML012A
520	6871VMMC05U	PCB ASSEMBLY,MAIN ML012A
521	4950V00059H	METAL,SBHG 15LA52
530	6871VSMA12A	PCB ASSEMBLY,SUB CONT MF-004A CTL ASSY RT-15LA3
540	6633VA0003L	INVERTER ASSEMBLY,12V NON ECT ALPS 4LAMP
560	6871VSMA13G	PCB ASSEMBLY,SUB POWER ML012A RU-15LA52

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;
CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic
RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

RUN DATE : 2002.9.18

LOCA. NO	PART NO	DESCRIPTION
IC		
IC1	0IZZVC0042H	M37136EFSP 52P ST ML012A
IC2	0IAL241600B	AT24C16-10PC 8D EEPROM 16K
IC3	0IFA752700A	KA75270Z 3 TP RE-SET IC MC-007
IC4	0IMCRNS002A	LM1881M NATIONAL SEMICONDUCTOR
IC201	0IAL242110A	AT24C21-10SI-2.5 8P,SOP TP 1K
IC202	0IPH740800M	74F08D 14P SOIC R/TP QUAD 2-IN
IC301	0IIT323000D	VPC3230D QA B4 80P QFP TRAY SO
IC302	0IHY100100A	LGTV1001 64P QFP BK PROGRESSIV
IC601	0IMCRMN014A	MSP3440G QA B8 V3 MICRONAS 80
IC602	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP
IC603	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOLTA
IC604	0IMCRFA009A	KA78M08RTM, FAIRCHILD 2P D-PAK
IC605	0IMCRFA008A	KA78M05RTM, FAIRCHILD 2P D-PAK
IC801	0ITC786000A	SI786 28SSOP TP DUAL-OUTPUT PO
IC901	0IMCRG2004B	JAGASM A4 SAGE 352BALL TRAY HI
IC902	0IPH806520A	80C652 40 PLCC ST 8-BIT MICROC
IC903	0IPH743730E	74HCT373D 20SOP R/TP ADDRESS L
IC904	0IZZVC0041M	M27C512_10F1 DIP BK 512K ML-01
IC905	0ISS416162C	K4S161622E-TC80 50TSOP R/TP SD
IC906	0ISS416162C	K4S161622E-TC80 50TSOP R/TP SD
IC907	0IPH740400G	74HC04D HEX INVERTER 14P,SOP T
IC908	0IAL241610A	AT24C16N-10SI 8P SOIC ST EEPRO
IC909	0IMCRFA020A	RC1587DT_36 FAIRCHILD 3P TO252
IC914	0IMCRTH001A	THC63LVDM83R THINE ELECTRONICS
TRANSISTOR		
IC802	0TFVI80001A	VISHAY SI4808DY R/TP SO-8 30V
IC803	0TFVI80001A	VISHAY SI4808DY R/TP SO-8 30V
IC804	0TFVI80005A	VISHAY SI4963DY R/TP SO-8 -20V
IC805	0TF492509AA	FET,SI4925DY TP TEMIC 30V 6.1A SO
IC913	0TF492509AA	FET,SI4925DY TP TEMIC 30V 6.1A SO
Q3	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q5	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q204	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q205	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q206	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q207	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q208	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q209	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q210	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q301	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q605	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q801	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q901	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q903	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q904	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1101	0TR150400BA	CHIP 2SA1504S(ASY) KEC
DIODE		
D1	0DD181009AB	KDS181 TP KEC - 85V - - - 300M
D2	0DD181009AB	KDS181 TP KEC - 85V - - - 300M
D601	0DD181009AB	KDS181 TP KEC - 85V - - - 300M
D602	0DD181009AB	KDS181 TP KEC - 85V - - - 300M
D801	0DD181009AB	KDS181 TP KEC - 85V - - - 300M
D802	0DD181009AB	KDS181 TP KEC - 85V - - - 300M
D805	0DD181009AB	KDS181 TP KEC - 85V - - - 300M
LD1101	0DL112100AB	LED,SM3411(DL-11S2GN1) BK Y-GREEN
ZD101	0DZ330009BA	ZENER,HZT33(TP) HITACHI
ZD211	0DZRM00178A	ZENERS,UDZS TE-17 5.1B
CAPACITOR		
C17	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C20	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C21	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C24	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C25	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C60	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C63	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C69	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C101	0CE476DH618	47UF STD 25V 20% FL TP 5
C105	0CE106DK618	10UF STD 50V M FL TP5
C107	0CE108DD618	1000UF STD 10V M FL TP5
C113	0CE105DK618	1UF STD 50V M FL TP5
C115	0CE107DF618	100UF STD 16V M FL TP5
C209	0CE225VK6DC	2.2UF MV 50V 20% R/TP(SMD) SMD
C214	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C217	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C220	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C221	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C302	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C323	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C331	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C332	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C333	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C334	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C335	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C336	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C347	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C354	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C361	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C362	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C363	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C364	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP

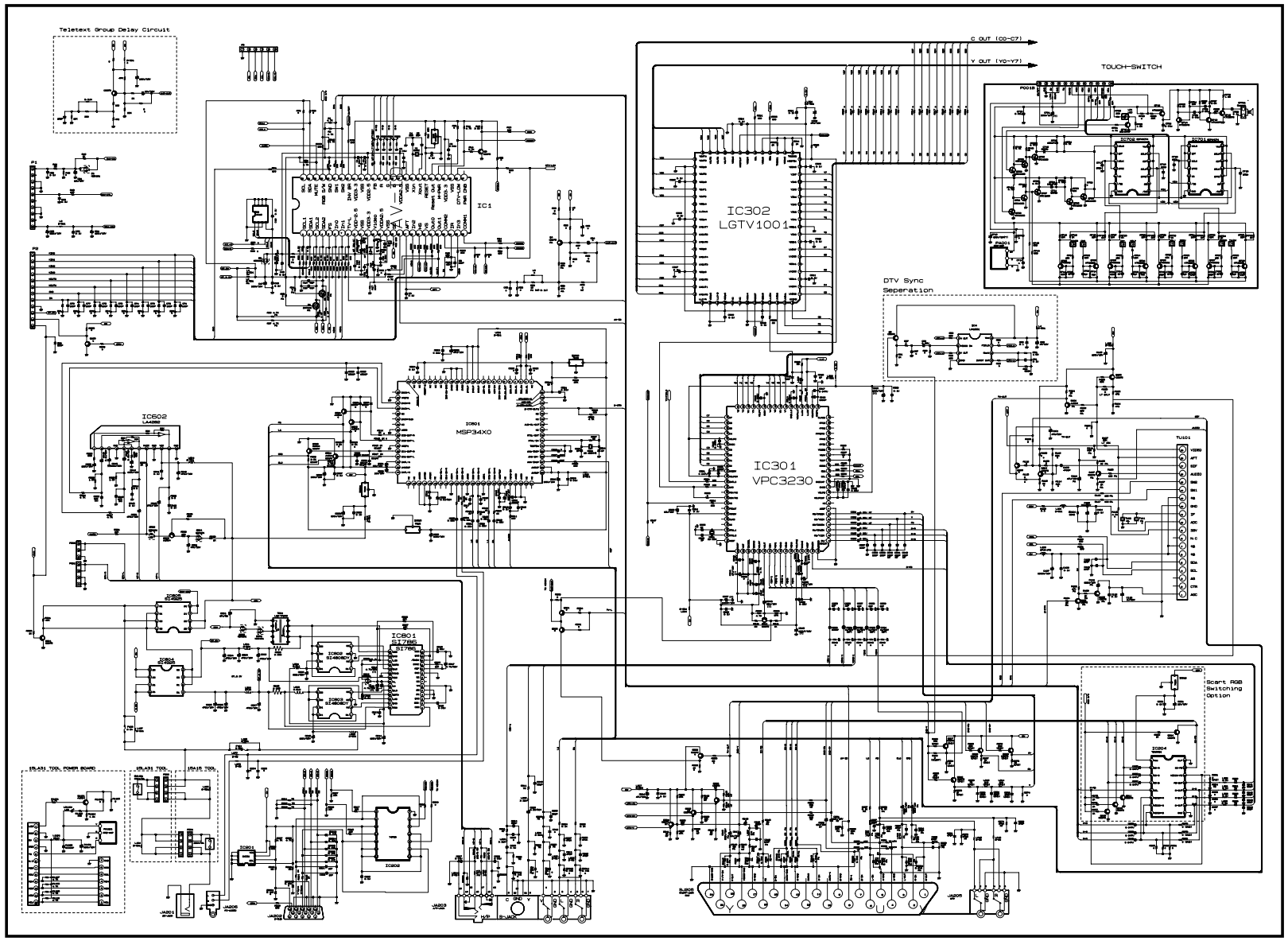
REPLACEMENT PARTS LIST

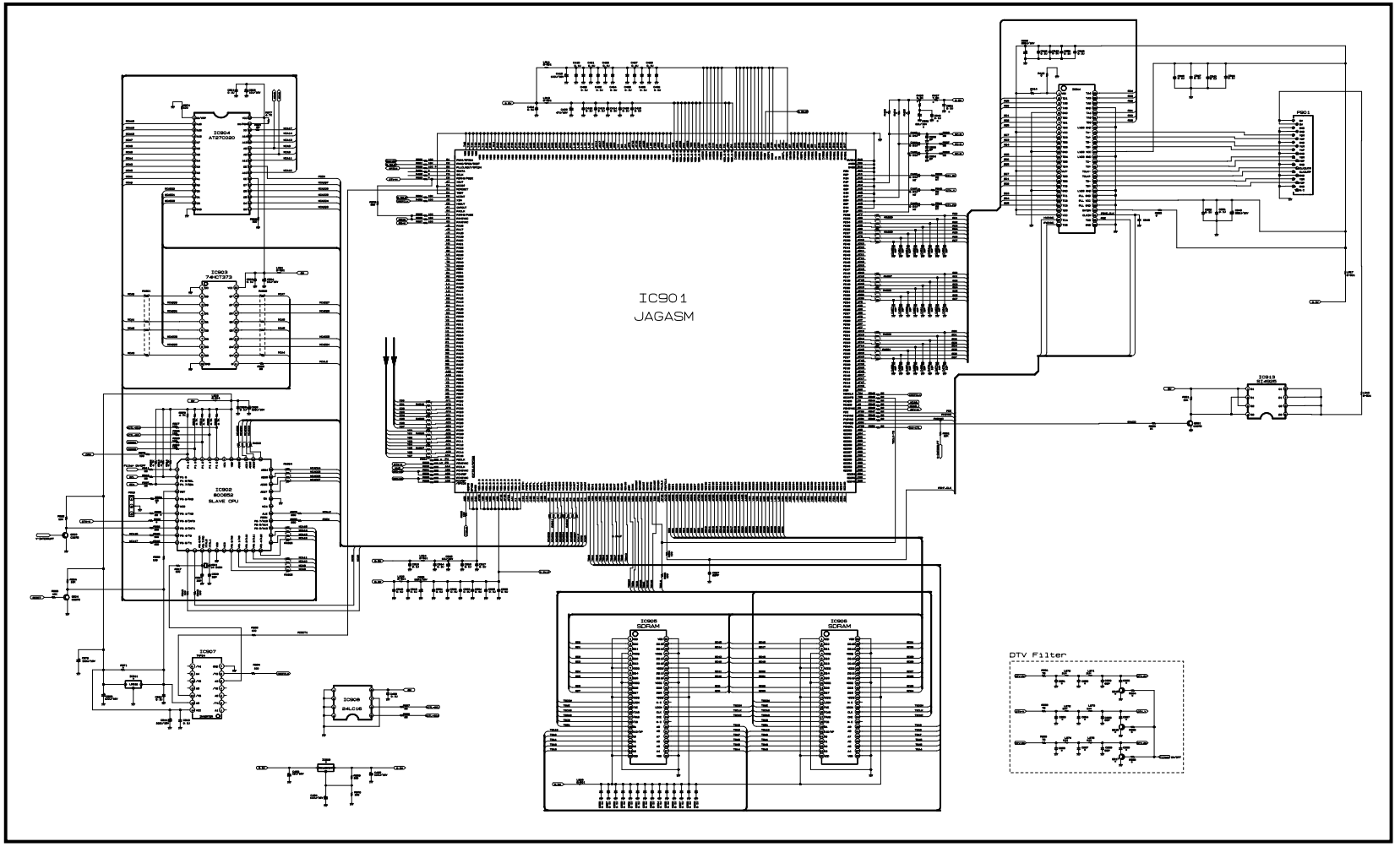
LOCA. NO	PART NO	DESCRIPTION
C365	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C406	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C418	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C493	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C494	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C495	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C610	0CE107DF618	100UF STD 16V M FL TP5
C614	0CE107DF618	100UF STD 16V M FL TP5
C618	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C619	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C620	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C621	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C622	0CE476DF618	47UF STD 16V M FL TP5
C631	0CE106DF618	10UF STD 16V M FL TP5
C632	0CE106DF618	10UF STD 16V M FL TP5
C633	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C635	0CE107DF618	100UF STD 16V M FL TP5
C638	0CE107DF618	100UF STD 16V M FL TP5
C639	0CE107DF618	100UF STD 16V M FL TP5
C640	0CE477DF618	470UF STD 16V 20% FL TP 5
C643	0CE477DF618	470UF STD 16V 20% FL TP 5
C644	0CE107DF618	100UF STD 16V M FL TP5
C645	0CE107DH618	100UF STD 25V M FL TP5
C647	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C648	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C649	0CQ1031N509	0.01U 100V K POLY TP
C650	0CE477DF618	470UF STD 16V 20% FL TP 5
C651	0CE476DF618	47UF STD 16V M FL TP5
C652	0CQ1031N509	0.01U 100V K POLY TP
C653	0CE107DF618	100UF STD 16V M FL TP5
C654	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C655	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C801	0CE476DK618	47UF STD 50V M FL TP5
C802	0CE477DF618	470UF STD 16V 20% FL TP 5
C803	0CE477DF618	470UF STD 16V 20% FL TP 5
C804	0CE477DF618	470UF STD 16V 20% FL TP 5
C805	0CE477DF618	470UF STD 16V 20% FL TP 5
C806	0CE477DF618	470UF STD 16V 20% FL TP 5
C807	0CE477DF618	470UF STD 16V 20% FL TP 5
C808	0CE227DH618	220UF STD 25V M FL TP5
C814	0CE107DH618	100UF STD 25V M FL TP5
C815	0CE107DH618	100UF STD 25V M FL TP5
C817	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C902	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C904	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C906	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C909	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C911	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C915	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C935	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C939	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C946	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C970	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1101	0CE107DD618	100UF STD 10V M FL TP5
	FUSE	
F101	0FS6300B84B	FUSE,SLOW BLOW 630MA 250V
F102	131-096F	FUSE,FAST BLOE MICRO 125V 2.5A
	JACK	
JA201	6612VAH001A	JACK,PHONE HEC3900-010110 HOSIDEN DC (7)
JA203	6613V00008F	JACK ASSY,PMJ014F E/P(ST)+S-VH
JA204	6612VJH008D	JACK,RCA PJ6063D DVD IN 3P GN-
JA205A	380-336E	JACK,RCA WA6013E RCA 1P WH GOL
JA205B	380-336F	JACK,RCA WA6013E RCA RED 1P GO
JA206	6612VCH003B	JACK,PHONE PEJ012C H=6.5 STEREO
	COIL & TRANSFORMER	
L102	0LA0272K139	INDUCTOR,27UH K
L802	6140VB0004B	COIL,CHOKE 26UH 1UEWPHY 22.5TURN
L803	6140VB0004A	COIL,CHOKE 9.5UH 1UEWPHY 13.5TURN
L1101	0LA0222K119	INDUCTOR,22UH K
T801	6170VTCA30A	TRANSFORMER,SMPS[COIL] EPC 13-Z 320UH DC-DC CONV. SI-
	RESISTOR	
R219	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R220	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R803	0RHZVTA001A	0.025 OHM 1W 2% 2512 R/TP, IRC
R805	0RHZVTA001A	0.025 OHM 1W 2% 2512 R/TP, IRC
RA901	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA902	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA903	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA904	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA905	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA906	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA907	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA908	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA909	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA910	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA911	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA912	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA926	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA927	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA928	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA929	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA930	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
RA931	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OH
	SWITCH	
SW1101	140-313A	SWITCH,TACT 2LEAD 100G(TA)
SW1101	6600VM1001A	SWITCH,PUSH SDKLA1 UL/CSA 250V 5A VER
SW1102	140-313A	SWITCH,TACT 2LEAD 100G(TA)

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
SW1103	140-313A	SWITCH,TACT 2LEAD 100G(TA)
SW1104	140-313A	SWITCH,TACT 2LEAD 100G(TA)
SW1105	140-313A	SWITCH,TACT 2LEAD 100G(TA)
SW1106	140-313A	SWITCH,TACT 2LEAD 100G(TA)
SW1107	140-313A	SWITCH,TACT 2LEAD 100G(TA)
FILTER & CRYSTAL		
L1	6210TCE001G	FILTER,EMC HH-1M3216-501
L3	6210TCE001G	FILTER,EMC HH-1M3216-501
L4	6210TCE001G	FILTER,EMC HH-1M3216-501
L101	6210TCE001G	FILTER,EMC HH-1M3216-501
L103	6210TCE001G	FILTER,EMC HH-1M3216-501
L104	6210TCE001G	FILTER,EMC HH-1M3216-501
L106	6210TCE001G	FILTER,EMC HH-1M3216-501
L201	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L202	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L204	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L205	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L206	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L207	6210TCE001G	FILTER,EMC HH-1M3216-501
L215	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L216	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L276	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L277	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L301	6210TCE001G	FILTER,EMC HH-1M3216-501
L302	6210TCE001G	FILTER,EMC HH-1M3216-501
L303	6210TCE001A	FILTER,EMC HB-1S2012-080JT
L304	6210TCE001G	FILTER,EMC HH-1M3216-501
L601	6210TCE001G	FILTER,EMC HH-1M3216-501
L602	6210TCE001G	FILTER,EMC HH-1M3216-501
L603	6210TCE001G	FILTER,EMC HH-1M3216-501
L604	6210TCE001G	FILTER,EMC HH-1M3216-501
L801	6210TCE001G	FILTER,EMC HH-1M3216-501
L804	6210TCE001G	FILTER,EMC HH-1M3216-501
L805	6210TCE001G	FILTER,EMC HH-1M3216-501
L901	6210TCE001G	FILTER,EMC HH-1M3216-501
L902	6210TCE001G	FILTER,EMC HH-1M3216-501
L904	6210TCE001G	FILTER,EMC HH-1M3216-501
L905	6210TCE001G	FILTER,EMC HH-1M3216-501
L908	6210TCE001G	FILTER,EMC HH-1M3216-501
L911	6210TCE001G	FILTER,EMC HH-1M3216-501
L913	6210TCE001G	FILTER,EMC HH-1M3216-501
L917	6210TCE001G	FILTER,EMC HH-1M3216-501
L918	6210TCE001G	FILTER,EMC HH-1M3216-501
X1	156-A01P	RESONATOR,CRYSTAL HC49U 8.000MHZ 30
X301	6202VDT002E	RESONATOR,CRYSTAL SX-1SMD 20250000H
X601	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ 30P
X901	6202VDT002B	RESONATOR,CRYSTAL SX-1SMD 14.318MHZ
MISCELLANEOUS		
JA202	6630VGA001B	CONNECTOR,D-SUB 15PIN 2.2

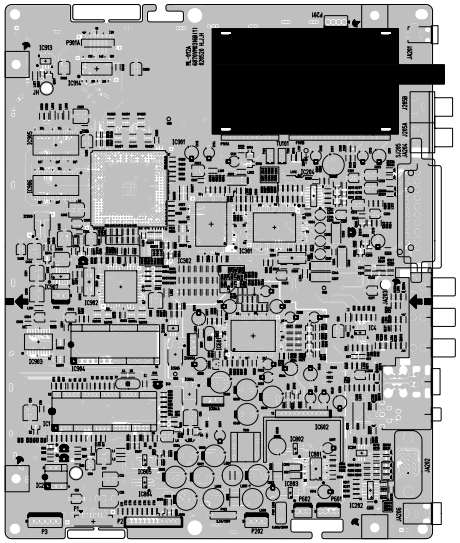
LOCA. NO	PART NO	DESCRIPTION
P1101	6631V20014E	CONNECTOR ASSEMBLY,12P 300MM
P1103	6631V25049H	CONNECTOR ASSY,4P 200MM
PA1101	6726VV0006D	REMOTE CONTROLLER RECEIVER,38KHZ
TU101	6700VNF019E	TUNER,TAFH-H001P LG NTSC FS
ACCESSORIES		
A1	3828VA0308Q	MANUAL,OWNERS ML012A RU-15LA52 ZENITH EN
A2	6710V00082G	REMOTE CONTROLLER
A3	6410VUH003A	POWER CORD,PS204-001 VOLEX UL/CSA 1800MM
A4	6634B00043B	ADAPTER,AC-DC SAD6012SE 12V 5.0A 60W


Teletext Group Delay Circuit
C OUT (C0~C7)
Y OUT (Y0~Y7)
TOUCH-SWITCH
IC302
LGTV1001
IC1
DTV Sync
Seperation
IC602
IC801
MSP34X0
IC301
VPC3230
IC801
S1786
Scart RGB
Switching
Option

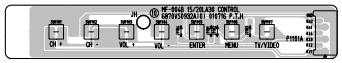

IC901
JAGASM
IC904
AT97C080
IC903
74HCT373
IC902
80C652
SLAVE CPU
IC907
IC908
24LC16
IC905
SDRAM
IC906
SDRAM
IC913
ST24C08
PS01
DTV Filter

PRINTED CIRCUIT BOARD

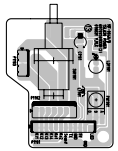
MAIN(TOP)



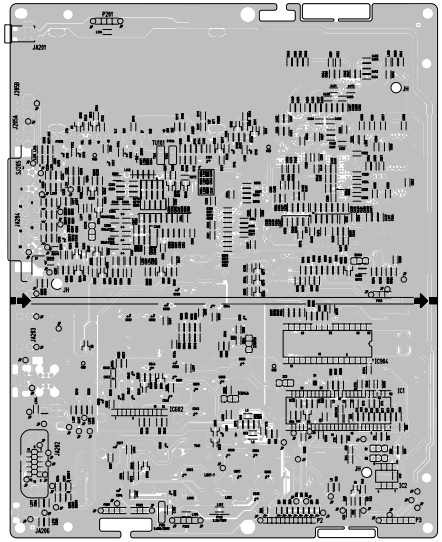
CONTROL



POWER



MAIN(BOTTOM)



BLOCK DIAGRAM